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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/552,664	10/11/2005	Masaji Hirota	2185-0778PUS1	2594	
	7590 07/25/200 ART KOLASCH & BI	EXAMINER			
PO BOX 747	OH 374 22040 0747	STALDER, MELISSA A			
FALLS CHURG	CH, VA 22040-0747		ART UNIT	PAPER NUMBER	
		4162			
			NOTIFICATION DATE	DELIVERY MODE	
			07/25/2008	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

		Application No.		Applicant(s)					
Office Action Summary			10/552,664		HIROTA ET AL.				
			Examiner		Art Unit				
			MELISSA S	TALDER	4162				
Period fo	The MAILING DATE of this commu r Reply	nication appe	ears on the	cover sheet with the c	correspondence ac	idress			
WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE IN sions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum see to reply within the set or extended period for reply eply received by the Office later than three months of patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.136 munication. tatutory period wi y will, by statute, o	TE OF THI 6(a). In no even ill apply and will cause the applic	S COMMUNICATION t, however, may a reply be tin expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•			
Status									
1) 又	Responsive to communication(s) file	ed on <i>11 Oc</i>	tober 2005						
, —		2b)⊠ This a							
<b>'</b> —		<i>,</i> —			secution as to the	e merits is			
٥,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4) X	Claim(s) <u>1-9</u> is/are pending in the a	pplication							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
	Claim(s) <u>1-9</u> is/are rejected.								
· ·	Claim(s) is/are objected to.								
-	Claim(s) are subject to restri	ction and/or	election red	guirement.					
	on Papers			1					
	•								
•	The specification is objected to by the			7					
10)	The drawing(s) filed on is/are	•	-	-					
	Applicant may not request that any obje								
	Replacement drawing sheet(s) including	_	-			, ,			
11)	The oath or declaration is objected t	o by the Exa	amıner. Not	e the attached Office	Action or form P	TO-152.			
Priority u	nder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2)  Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) of No(s)/Mail Date 10-11-05.			4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

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#### **DETAILED ACTION**

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## Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re V an Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re V ogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In *re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 7 and 8 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 7,074,947. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims recite the process for producing an epoxide using the same steps/materials as recited in claim 1 of the patent, with the exception of the pH and phosphate. However, it would have been obvious to one of ordinary skill in the art at the time of the invention that the process would take place in an acidic pH as the patent adds phosphoric acid to the reaction. Furthermore, adding the salt of an acid to a reaction considered obvious as it is a known source for additions of acids to reaction mechanisms.

### Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 6 recites the limitations "the alkali metal phosphate" and "the alkaline earth metal phosphate" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 recites the limitations "the process" in line 1. There is insufficient antecedent basis for this limitation in the claim.
- 5. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 9 recites the limitations "the corresponding carbonyl" in line 1. There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Hancock (5,367,032). Hancock teaches a carbonyl-containing compound formed by reacting a compound containing at least tungsten or molybdenum, an amine such as triamine, hydrogen peroxide, and a phosphorus acid or a species convertible to a phosphorus acid. Although Hancock teaches the formation of a carbonyl compound, the catalyst would inherently form from these materials.

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6. Regarding claim 5, tungsten is one of the metals that may be included in the compound.

#### Claim Rejections - 35 USC § 103

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7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 and 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steinmetz (US 3,119,875). Steinmetz teaches the production of an aldehyde or ketone (compound with a carbonyl group) (title) from the reaction of a catalyst solution comprising molybdenum and other transition metals (col. 4, line 47), an oxygen compound of nitrogen (col. 5, line 6) and a mineral acid (phosphoric acid) (col. 5, line 26), in the presence of an olefin (col. 4, line 10) in a pH range of 0 to 5 (col. Col, lines 8-10). Steinmetz teaches that hydrogen peroxide is a preferred active oxidizer so it would have been obvious to one of ordinary skill in the art at the time of the invention to use both hydrogen peroxide and a nitrogen-oxygen compound for oxidation of the reaction.

Regarding claim 2, this language does not further limit claim 1, since it further limits a selection which is not positively recited.

Regarding claims 3 and 4, molybdenum metal is already included in claim 1.

Regarding claim 6, Steinmetz teaches the use of a mineral acid, which encompasses phosphoric acid.

Regarding claim 9, Steinmetz teaches that the production of the carbonyl may take place in a solution of ethylene glycol, propylene glycol, or glycerol (col. 5, lines 40-46).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSA STALDER whose telephone number is (571)270-5832. The examiner can normally be reached on Monday-Friday, 8:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MS

/Jennifer McNeil/ Supervisory Patent Examiner, Art Unit 4162